

in line 8, before "generally" insert --is--.

On page 7, in line 3, change "fx - 10" to --fx 1 - 10--.

On page 9, in line 7, delete "a [...] in".

On page 10, in line 25, before "replace" insert --to--.

5 On page 13, in line 16, before "written" insert --which are--.

On page 19, after line 7, add the following new paragraph --

Although other modifications and changes may be suggested by those skilled in the art, it is the intention of the inventors to embody within the patent warranted hereon all changes and modifications as reasonably and properly come within the scope of their contribution to the art.--.

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IN THE CLAIMS

On substitute page 20, line 1, change "Patent Claims" to --We Claim:--.

Amend claim 1 as follows:

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1. (Amended) A method [Method] for [the] transmission of information in various carrier frequencies with a frequency hopping method, comprising the following steps:

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offering [(22)] a random sequence of a plurality of N possible carrier frequency values fx in addresses 1 through N of a table [(25)], [whereby] the N possible carrier frequency values being [are] divided into n sub-groups; periodically repeated readout [(30, 36)] of at least a part M of the N carrier frequency values fx from the table [(25)], [whereby] the carrier frequency

values fx within each sub-group being [are] sequentially read out from the corresponding addresses and the sub-groups being [are] read out in a discontinuous sequence, [whereby] $M \leq N$ applies; and transmitting [(4, 6)] information in the corresponding carrier frequencies.

5 2.(Amended) A method [Method] according to claim 1, wherein [characterized in that] the step of offering a random sequence of a plurality of N possible carrier frequency values fx in addresses a through N of the table [(25)] comprises the following steps:

10 generating [(35)] a respective random sequence of a plurality k of possible [,] different carrier frequency values fx for each sub-group; writing the random sequence of the k carrier frequency values fx into the corresponding addresses of the respective sub-group of the table, [whereby] $k \times n = N$ applies.

15 3. (Amended) A method [Method] according to claim 1 [or 2], further comprising [characterized in that] the following steps: [are implemented for the setup of]

20 setting up a connection including: sampling [(31)] a carrier frequency; deciding [(32)] whether a specific message was received on said [this] carrier frequency during a specific time span; when the deciding step [decision] is negative, selecting [(34)] a new carrier frequency and sampling said [(31) this] new carrier frequency; when the deciding step [decision] is positive, editing [(36)] the table upon employment of the message.

4. (Amended) A method [Method] according to claim 1, further comprising [2 or 3, characterized in that] the following steps: [are implemented for the]

implementing synchronization including:

5 sampling [(26)] a carrier frequency;
deciding [(27)] whether said [this] carrier frequency was received during a specific time span;
when the decision is negative, selecting [(28)] a new carrier frequency and sampling said [this] new carrier frequency;
10 when the decision is positive, searching [(29)] the address in the table corresponding to said [this] carrier frequency and periodically repeated readout [(30, 36)] of the carrier frequency values fx proceeding from this address.

15 5. (Amended) A method [Method] according to claim 1, wherein [one of the preceding claims, characterized in that] a part j of k possible carrier frequency values is read out from each sub-group of the table [(25)], whereby the remaining k-j carrier frequency values are employed for replacing disturbed carrier frequency values of the j carrier frequency values in the respective sub-group, whereby $j \times n = M$ applies.

20 6. (Amended) A method [Method] according to claim 5, characterized in that each sub-group of the table is updated from the k-j carrier frequency values before the periodically repeated read-out upon replacement of the carrier frequency values that correspond to disturbed carrier frequencies.

7. (Amended) An apparatus [Apparatus] for the transmission of

information in various carrier frequencies with a frequency hopping method, comprising;

5 a means [(23)] for offering a random sequence of a plurality of N possible carrier frequency value fx in addresses 1 through N of a table [(25)], whereby the N possible carrier frequency values are arranged in n sub-groups;

10 a means [(30, 36)] for periodically repeated readout at least a part M of the N carrier frequency values fx from the table [(25)], whereby the carrier frequency values within each sub-group are sequentially read out from the corresponding addresses and the sub-groups are read out in a discontinuous sequence, whereby M ≤ N applies; and

15 a means [(4, 6)] for transmitting information in the corresponding carrier frequencies.

8. (Amended) An apparatus [Apparatus] according to claim 7, characterized in that the means for editing a random sequence of a plurality of N possible carrier frequency values fx into addresses 1 through N of a table [(25)] comprises:

15 means [(35)] for generating a respective random sequence of a plurality k of possible, different carrier frequency values fx for each sub-group;

20 means for writing the random sequence of the k carrier frequency values fx into the corresponding addresses of the respective sub-group of the table.

9. (Amended) An apparatus [Apparatus] according to claim 7 [or 8], characterized in that a means for the setup of a connection is provided that comprises:

25 means [(31)] for sampling a carrier frequency;

25 means [(32)] for deciding whether a specific message was received on this carrier

frequency during a specific time span, configured such that, when the decision is negative, a new carrier frequency is selected and this new carrier frequency is sampled, and, when the decision is positive, the table is edited upon employment of the message.

5 10. (Amended) An apparatus [Apparatus] according to claim 7, [8 or 9], characterized in that a means for synchronization is provided that comprises: means [(26)] for sampling a carrier frequency; means [(27)] for deciding whether this carrier frequency was received during a specific time span, configured such that, when the decision is negative, a new carrier frequency is selected and this new carrier frequency is sampled, and, when the decision is positive, the address in the table corresponding to this carrier frequency is sought and the carrier frequency values f_x are periodically repeatedly read out proceeding from this address.

15 11. (Amended) An apparatus [Apparatus] according to claim [one of the claims] 7 [through 10], characterized in that the means [(30, 36)] for readout reads a part j of k possible carrier frequency values from each sub-group of the table, whereby the remaining $k-j$ carrier frequency values are employed for replacing disturbed carrier frequency values of the j carrier frequency values in the respective sub-group, and whereby $j \times n = M$ applies.

20 12. (Amended) An apparatus [Apparatus] according to claim 11, characterized by a means [(37, 38)] for updating that updates each sub-group of the table from the $k-j$ carrier frequency values before the periodically repeated readout upon replacement of the carrier frequency values that correspond to disturbed carrier frequencies.